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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/026,312	12/21/2001	Matthew Philip Aubury	EMB1P074 (44359/08329)	EMB1P074 (44359/08329) 8002	
75	. 07/27/2005		EXAMI	EXAMINER	
C. Douglas McDonald			OSBORNE, LUKE R		
Carlton Fields, P.A. P. O. Box 3239			ART UNIT	PAPER NUMBER	
Tampa, FL 33601-3239			2123		
			DATE MAILED: 07/27/2005	;	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner	7	Application No.	Applicant(s)				
Luke Osborne    Luke Osborne   Luke		10/026,312	AUBURY, MATTHEW PHILIP				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Ederations of time may be available under the provision of 37 cFR 1.15(b), in no event, however, may a reply be timely filed and the state of the may be available under the provision of 37 cFR 1.15(b), in no event, however, may a reply be timely filed at the period for reply appellable under the provision of 37 cFR 1.15(b), in no event, however, may a reply be timely filed at the period for reply appellable under the provision of 37 cFR 1.15(b), an overall, however, may a reply be timely filed at the period for reply appellable under the period for reply appellable under the period for reply appellable under the period for reply appellable. The period for reply appellable under the period for reply appellable, and the period for reply well, by abuting, cause the application to become ARANOOKEO (58 U.S. C. \$135).  Fabrice to reply within the set or extended period for reply well, by abuting, cause the application to become ARANOOKEO (58 U.S. C. \$135).  Fabrice to reply well the set of the communication, control of the communication. Filed the communication of the communication, even if timely filed, may return a great period for reply application to the communication.  Fabrice to reply well the set of the communication of the communication.  The period for the set of the communication of the communication is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-15 is/are pending in the application.  4) Claim(s) 1-15 is/are rejected.  The period of the provision	Office Action Summary	Examiner	Art Unit				
Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edensions of time may be available under the provisions of 37 CFR 1.35(a), in ne event, however, may a repty be timaly filed.  Edensions of time may be available under the provisions of 37 CFR 1.35(a), in ne event, however, may a repty be timaly filed.  Edensions of time may be available under the provisions of 37 CFR 1.35(a), in ne event, however, may a repty be timaly filed.  Edensions of time may be available under the provisions of 37 CFR 1.35(a) and the statistic provision in the statistic provision of the statistic provision and the statistic provision of the provision of the statistic provision of the statistic provision of the provision of the communication. Provision of the communication of the communication, even if timely flux, may reduce any seamed patient term edipatiment. See 37 CFR 1.704(a).  Status  1)  Responsive to communication(s) filed on 17 March 2004.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1.15 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  5) Claim(s) is/are allowed.  5) Claim(s) is/are allowed.  Claim(s) is/are allowed.  Claim(s) is/are allowed.  Claim(s) is/are objected to set in accepted or b) objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  Application Papers  9) The drawing(s) filed on 21 December 2001 is/are: a) coepted or b) objected to by the Examiner.  Application Ray not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to by the Examiner.  1) The dark or declaration is objected		Luke Osborne	2123				
THE MAILING DATE OF THIS COMMUNICATION.  - Edanistors of time may be available under the provisions of 37 CPR 1.15(a). In no event, however, may a reply be timely filed after 53 (c) (b) MOTTPS from the mailing date of this communication.  - Folius to reply tis pellid above, the manione data of the scormolaristic manion.  - Folius to reply tis pellid above, the manione data of the scormolaristic manion.  - Folius to reply within the set or extended period for reply valle) by a studie, eause the application to become ABANDONED (SU S.C. § 133).  - Any reply received by the Office little from their emands after the mailing date of this communication, even if timely filed, may reduce any canned plant term edipatiment. See 37 CPR 1.79(b).  - Status  1) □ Responsive to communication(s) filled on 17 March 2004.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-15 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  4b) □ Claim(s) 1-15 is/are rejected.  7c) □ Claim(s) is/are allowed.  6c) □ Claim(s) is/are allowed.  6c) □ Claim(s) is/are allowed.  7c) □ Claim(s) is/are allowed.  7c) □ Claim(s) is/are objected to by the Examiner.  10) □ The drawing(s) filed on 21 December 2001 is/are: allowed.  Application Papers  9c) □ The specification is objected to by the Examiner.  10c) □ The drawing(s) filed on 21 December 2001 is/are: allowed.  Application Papers  9c) □ The drawing(s) filed on 21 December 2001 is/are: allowed.  Application Papers  10c) □ The drawing(s) filed on 21 December 2001 is/are: allowed.  Application Papers  10c) □ The drawing(s) filed on 21 December 2001 is/are: allowed.  Application from the international Bureau (PCT Rule 17.2(a).  11 □ Certified copies of the priority documents have been received in Ap							
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### **DETAILED ACTION**

#### Claim Status

1. Claims 1-15 are pending in the instant application.

Claims 1-15 stand rejected.

#### Information Disclosure Statement

2. The information disclosure statement (IDS) submission on 3/17/04 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

## Claim Objections

3. Claims 2-5, 7-10, 12-15 are objected to because of the following informalities: Claim 2 as representative of the objected claims begins with "A method as recited in claim 1." The claim should read "The method as recited in claim 1" in order for the claim to be a proper dependent claim. Appropriate correction is required.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-15 rejected under 35 U.S.C. 102(b) as being anticipated by Profiling in the ASP Codesign Environment by M. Parkinson and S. Parameswaran as provided by Applicant on an IDS submitted 3/17/04, hereafter "Parkinson."

Regarding claim 1, Parkinson discloses a method for profiling an executable hardware model. See Figure 2, 3, 4 and the corresponding portions of Parkinson's specification for this disclosure. In particular, Parkinson teaches "a method for profiling an executable hardware model, comprising the steps of:

- (a) selecting a plurality of profiling functions of a profiling process [Page 2, Section 2, Profiling software];
  - (b) preprocessing an application having application functions targeted for implementation in reconfigurable logic for inserting calls to the profiling functions [Page 2, Section 2.2 Software tagging Software tagging consists of two stages, parsing and insertion];
  - (c) executing the application [Ten common benchmark programs were tested with the profiling tools which have been developed (Page 4, Section 4 Results)]; and
  - (d) generating a profile based on the profiling functions called during execution of the application [The charts of Figures 5 through 9 represent a comparison between the exact percentages, as calculated on the dedicated hardware, compared with the execution on a SPARC workstation, and a 68k based workstation (Page 5)]" as claimed.

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Regarding claim 2, Parkinson teaches a method as recited in claim 1, "wherein the profile includes at least one of a time taken by each application function, a number of calls to each application function, and a call graph for illustrating calls between functions [The software techniques employed for profiling (the timing of coded sections, as well as procedure) were also test on the standard timing hardware of a workstation (Page 4, Section 4 Results)]" as claimed.

Regarding claim 3, Parkinson teaches a method as recited in claim 1, "wherein the profile includes at least one of dynamic control flow and memory transfers

[The aim of execution profiling is to build this dynamic model. For a statistically accurate model, the designer must ensure that any testing data is representative of the general data set the algorithm will encounter during normal operation. In this way, every branch within the algorithm may be exercised. An example of a typical piece of code containing a single entry point and multiple exit points, along with inserted profiling calls, is detailed in Figure 3.]" as claimed.

Regarding claim 4, Parkinson teaches a method as recited in claim 1, "wherein the application is permitted to interoperate with an arbitrary external library [The profiler merely requires a cross compilation to change the architecture under consideration (Page 3, Section 2.3)]" as claimed.

Regarding claim 5, Parkinson teaches a method as recited in claim 1, "wherein the application is written in a C programming language (Page 3, Figure 3)" as claimed.

Claims 6-10 recite the computer program product limitations of method claims 1-5, thus are rejected for the same reasons as claims 1-5.

Claims 11-15 recite the system logic for limitations of method claims 1-5, thus are rejected for the same reasons as claims 1-5.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO form 892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luke Osborne whose telephone number is (571) 272-4027. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LRO

LEO PICARD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100